

TEAC

SERVICE MANUAL

A-L700P

Power Amplifier

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NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- \triangle Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [] mark can be used only with the version designated.
[US]:U.S.A. [C]:CANADA [E]:EUROPE [UK]:U.K.

1 SPECIFICATIONS

Power outputs 30 W/ch (6 Ω , 0.5 %, 1 kHz)
Input sensitivity 1 V/47 k Ω
Frequency response 20 Hz to 20,000 Hz (+1/-3 dB)

| | |
|-----------------------------|---------------------------------------|
| Power requirements | AC 230 V, 50 Hz (Europe model) |
| | AC 120 V, 60 Hz (U.S.A./Canada model) |
| Power consumption..... | 45 W (STANDBY : 5 W) |
| Dimensions (WxHxD)..... | 215 x 109 x 339 mm |
| Weight..... | 2.5 kg |
| Operating temperature | 5 °C ~ 40 °C |
| Operating humidity..... | 5 % ~ 90 % |
| Storage temperature | -20 °C ~ 55 °C |

Accessories RCA cable (red/white) x 1
RCA cable (black) x 1
LINK cable x 1

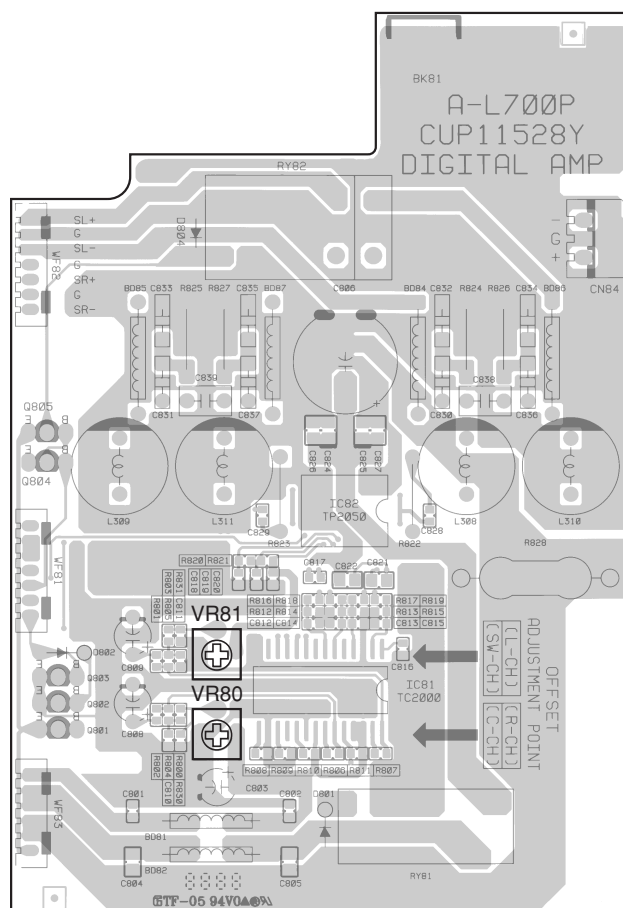
- Design and specifications are subject to change without notice.

2 ADJUSTMENTS

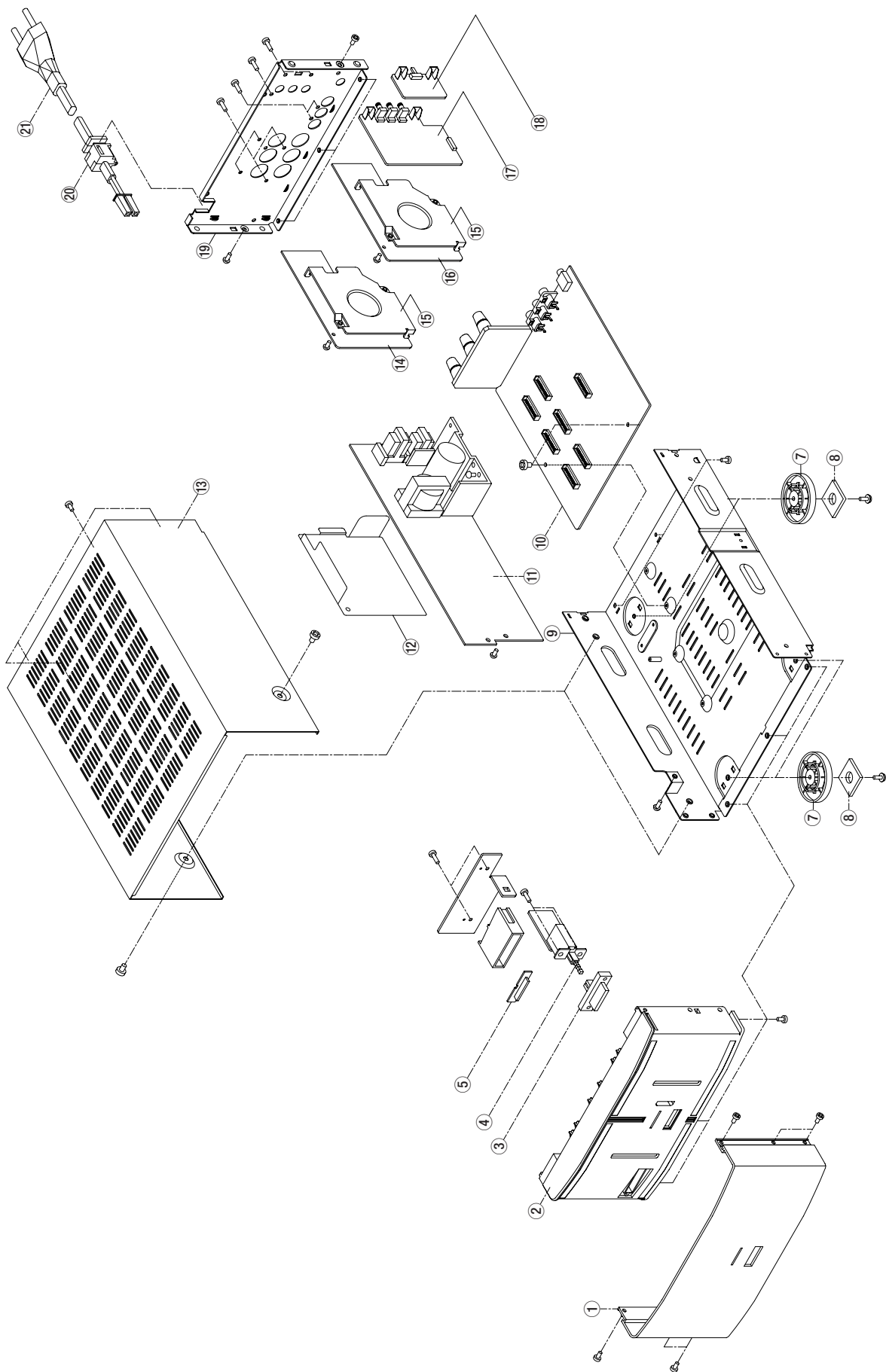
DC Offset Level Adjustment

DC Voltmeter.....Connect to speaker output terminal

| CHANNEL | ADJUST FOR | ADJUSTMENT |
|--------------|-------------------------------|------------|
| SURROUND (L) | DC Voltmeter 0V (-30mV~+30mV) | VR81 |
| SURROUND (R) | DC Voltmeter 0V (-30mV~+30mV) | VR80 |
| CENTER | DC Voltmeter 0V (-30mV~+30mV) | VR80 |



3 EXPLODED VIEWS AND PARTS LIST



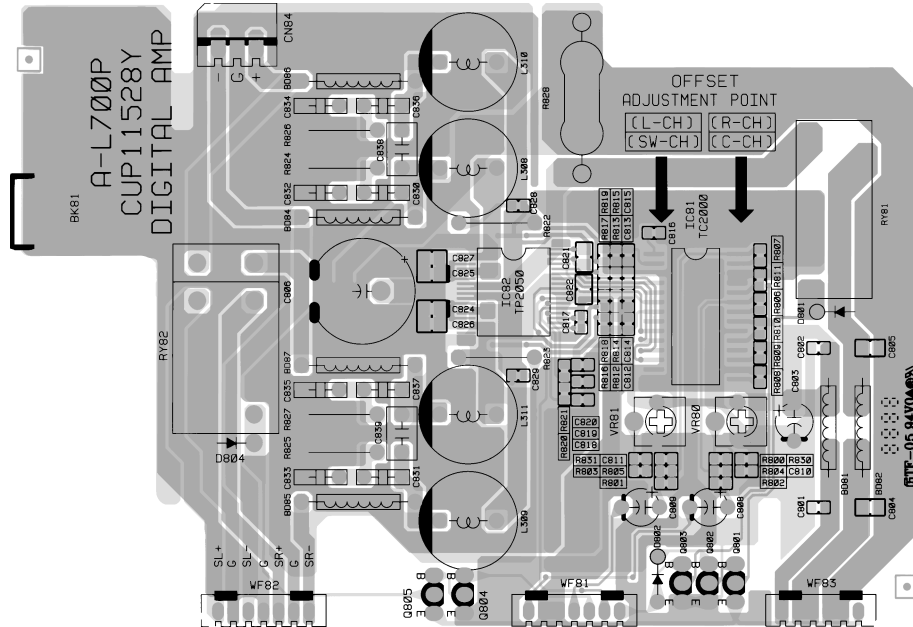
EXPLODED VIEW LIST

| REF. NO. | PARTS NO. | DESCRIPTION | REMARKS |
|----------|--------------|-----------------------|----------------|
| 1 | 9A09610100 | PANEL, FRONT | KKM1A125ZC35 |
| 2 | 9A09607100 | PANEL, SUB | CGW1A344R6K101 |
| 3 | 9A09606900 | KNOB, POWER | CBC1A140M7K101 |
| 4 | △ 9A09609700 | SW, PUSH | HS1A008ZV |
| 5 | 9A09607000 | INDICATOR, POWER | CGL1A202 |
| 7 | 9A09609400 | FOOT | HKL1A074Z |
| 8 | 9A06229300 | CUSHION, FOOT | KHG1A039Z |
| 9 | 9A09608700 | CHASSIS, BOTTOM | CUA1A216 |
| 10 | 9A09575110 | MAIN PCB ASSY | COP11539B |
| 11 | 9A09574710 | SMPS PCB ASSY [US, C] | COPDDS140B |
| | 9A09574720 | SMPS PCB ASSY [E, UK] | COPDDS140A |
| 12 | 9A09608100 | INSULATOR, SMPS | CMX1A136 |
| 13 | 9A09607700 | TOP CABINET | CKC1B131S35 |
| 14 | 9A09574810 | AMP PCB ASSY | COP11528B |
| 15 | 9A09608200 | PLATE, HEAT SINK | CMY1A200 |
| 16 | 9A09574810 | AMP PCB ASSY | COP11528B |
| 17 | 9A09575110 | MAIN PCB ASSY | COP11539B |
| 18 | 9A09575110 | MAIN PCB ASSY | COP11539B |
| 19 | 9A09607810 | REAR PANEL [US, C] | CKF1A243X |
| | 9A09607820 | REAR PANEL [E, UK] | CKF1A243Z |
| 20 | △ 9A06754900 | BUSHING, AC CORD | KHR1A028 |
| 21 | △ 9A07872600 | POWER CORD [US, C] | CJA523F8Y |
| | △ 9A07916700 | POWER CORD [E] | CJA2B043Z |
| | △ 9A07916800 | POWER CORD [UK] | CJA2E045Z |
| | 9A09607900 | FERRITE, RING | CLZ9W003Z |

INCLUDED ACCESSORIES

| REF. NO. | PARTS NO. | DESCRIPTION | REMARKS |
|----------|------------|-------------------------|-----------|
| | 9A09478700 | OWNER'S MANUAL, EFSG IN | CQX1A807Z |
| | 9A09607500 | CORD, PIN | CJS4M027Z |
| | 9A09607600 | CORD, PIN | CJS4N014Z |
| | 9A09610000 | CORD (STEREO) MINI | KJS9D001Z |

AMP PCB



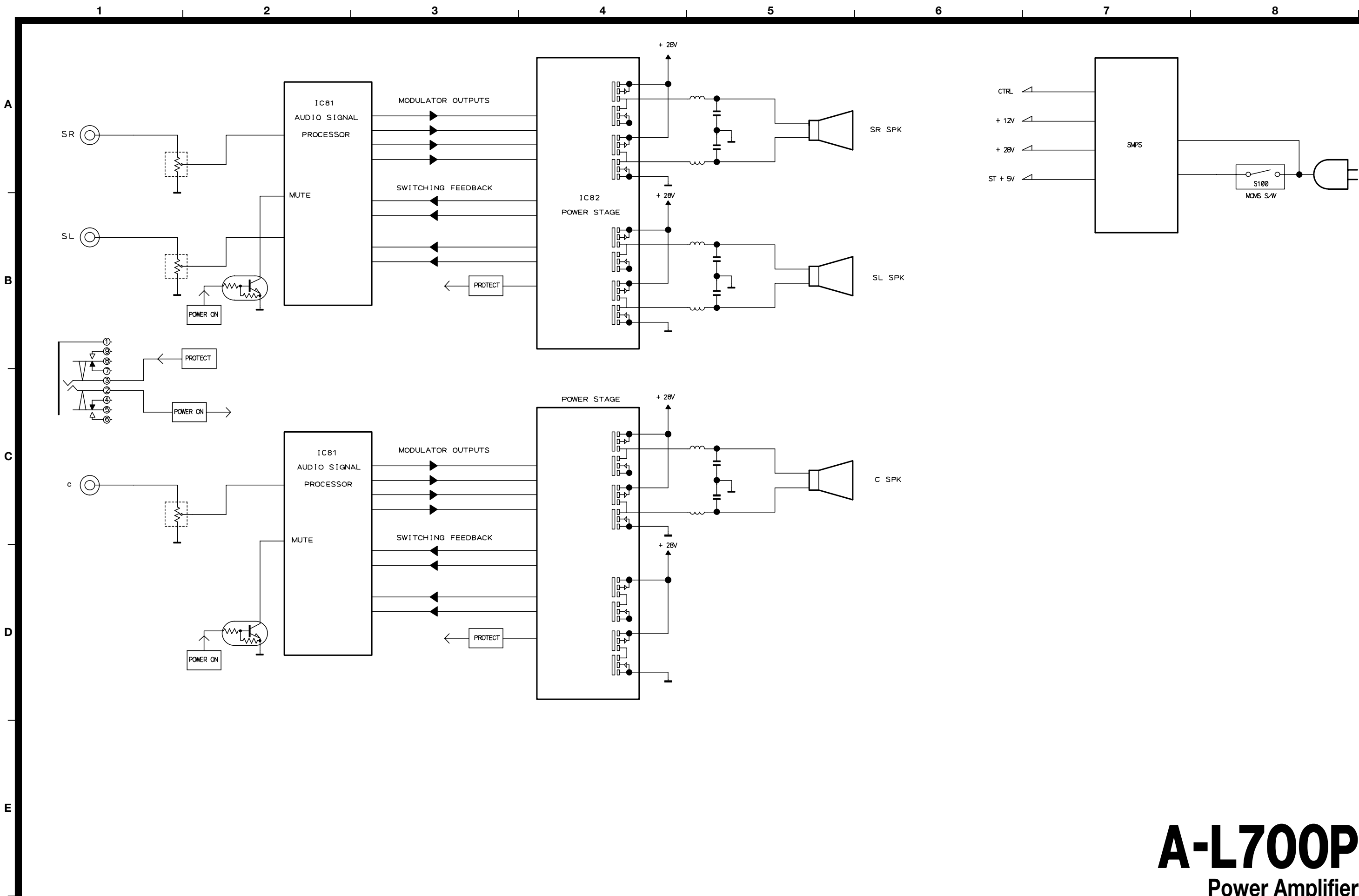
MAIN PCB ASSY (GATHER)

| REF. NO. | PARTS NO. | DESCRIPTION |
|------------|------------|----------------------------|
| | 9A09575110 | MAIN PCB ASSY |
| | 9A09608900 | PCB, MAIN |
| | 9A09608000 | PLATE, EARTH |
| BK11-BK13 | 9A09559700 | BRACKET, PCB |
| CN81 | 9A07889700 | WAFER, MOLEX 35336-0610 |
| CN82, CN83 | 9A07889900 | WAFER, MOLEX 35336-0710 |
| CN84 | 9A07889700 | WAFER, MOLEX 35336-0610 |
| CN85, CN86 | 9A07889900 | WAFER, MOLEX 35336-0710 |
| CN87 | 9A08219800 | WAFER |
| CN91, CN92 | 9A05356300 | WAFER, 04GA19ZM |
| D201-D204 | 9A08878200 | DIODE, 1SS133T-77 |
| D901 | 9A09344400 | LED, YELLOW |
| D902 | 9A09563300 | LED, BLUE |
| IC21 | 9A08218600 | IC, MC7805C |
| JK31 | 9A06861800 | JACK, HEADPHONE |
| JK32 | 9A09607300 | JACK, BOARD 3P |
| JK33 | 9A09607400 | TERMINAL, SP (RR/BB) |
| JK34 | 9A09595100 | TERMINAL, SP (R/B) |
| Q201 | 9A08884100 | TR, KRA107M |
| Q202-Q207 | 9A08878300 | TR, KRC107M |
| Q901-Q903 | 9A08878300 | TR, KRC107M |
| R208, R215 | 9A05338200 | R, METAL OXIDE FILM 1W 390 |
| S100 | 9A09609700 | SW, PUSH |
| S101 | 9A06675300 | SW, SLIDE |
| VR11-VR13 | 9A09609900 | VR, VOL |
| WF87 | 9A08219900 | CONNECTOR |

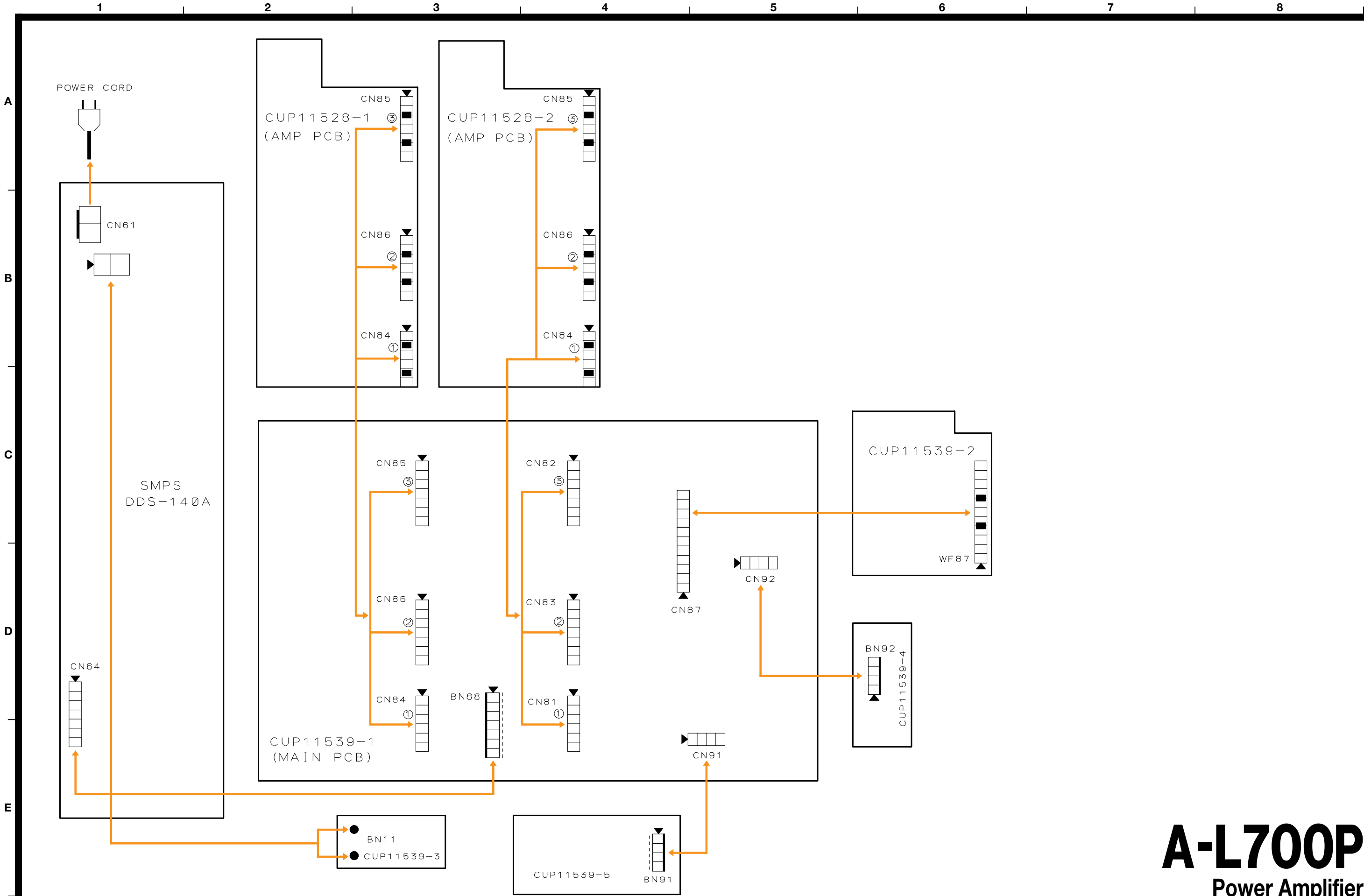
AMP PCB ASSY

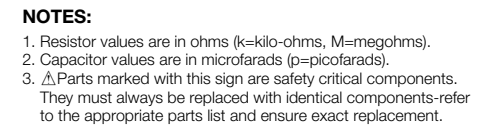
| REF. NO. | PARTS NO. | DESCRIPTION |
|------------|------------|-----------------------------|
| | 9A09574810 | AMP PCB ASSY |
| | 9A09608800 | PCB, AMP |
| | 9A09608200 | PLATE, HEAT SINK |
| BD81, BD82 | 9A07050600 | BEAD, CORE |
| BD84-BD87 | 9A07050600 | BEAD, CORE |
| BK81 | 9A09559700 | BRACKET, PCB |
| CN84 | 9A05967900 | WAFER, MOLEX 5268-03A |
| D801, D802 | 9A08878200 | DIODE, 1SS133T-77 |
| D804 | 9A08878200 | DIODE, 1SS133T-77 |
| IC81 | 9A09570400 | IC, TC2000 |
| IC82 | 9A09570600 | IC, TP2050 |
| L308-L311 | 9A09559500 | COIL, SPEAKER |
| Q801 | 9A08884100 | TR, KRA107M |
| Q802, Q803 | 9A08878300 | TR, KRC107M |
| Q804 | 9A09041400 | TR, KRC111MT |
| Q805 | 9A08884100 | TR, KRA107M |
| R822, R823 | 9A09571600 | R, METAL FILM |
| R828 | 9A09571700 | R, METAL OXIDE FILM 2W 1K |
| RY81 | 9A09569900 | RELAY |
| RY82 | 9A09058500 | RELAY |
| VR80, VR81 | 9A09609800 | R, SEMI-FIXED 5K |
| WF81, WF82 | 9A07890000 | CONNECTOR, MOLEX 35237-0710 |
| WF83 | 9A07889800 | CONNECTOR, MOLEX 35237-0610 |

TEAC BLOCK DIAGRAM A-L700P

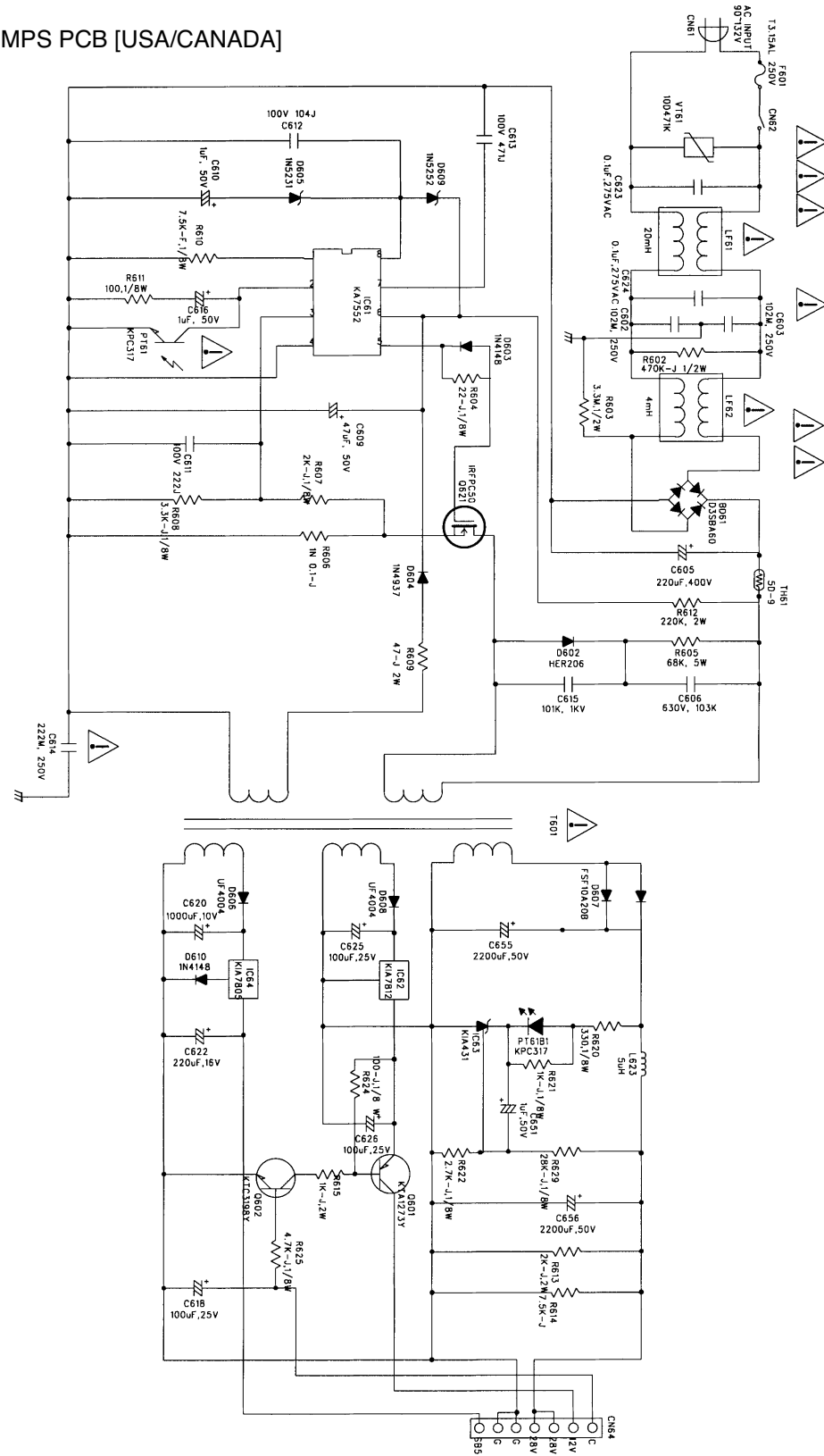


TEAC WIRING DIAGRAM A-L700P

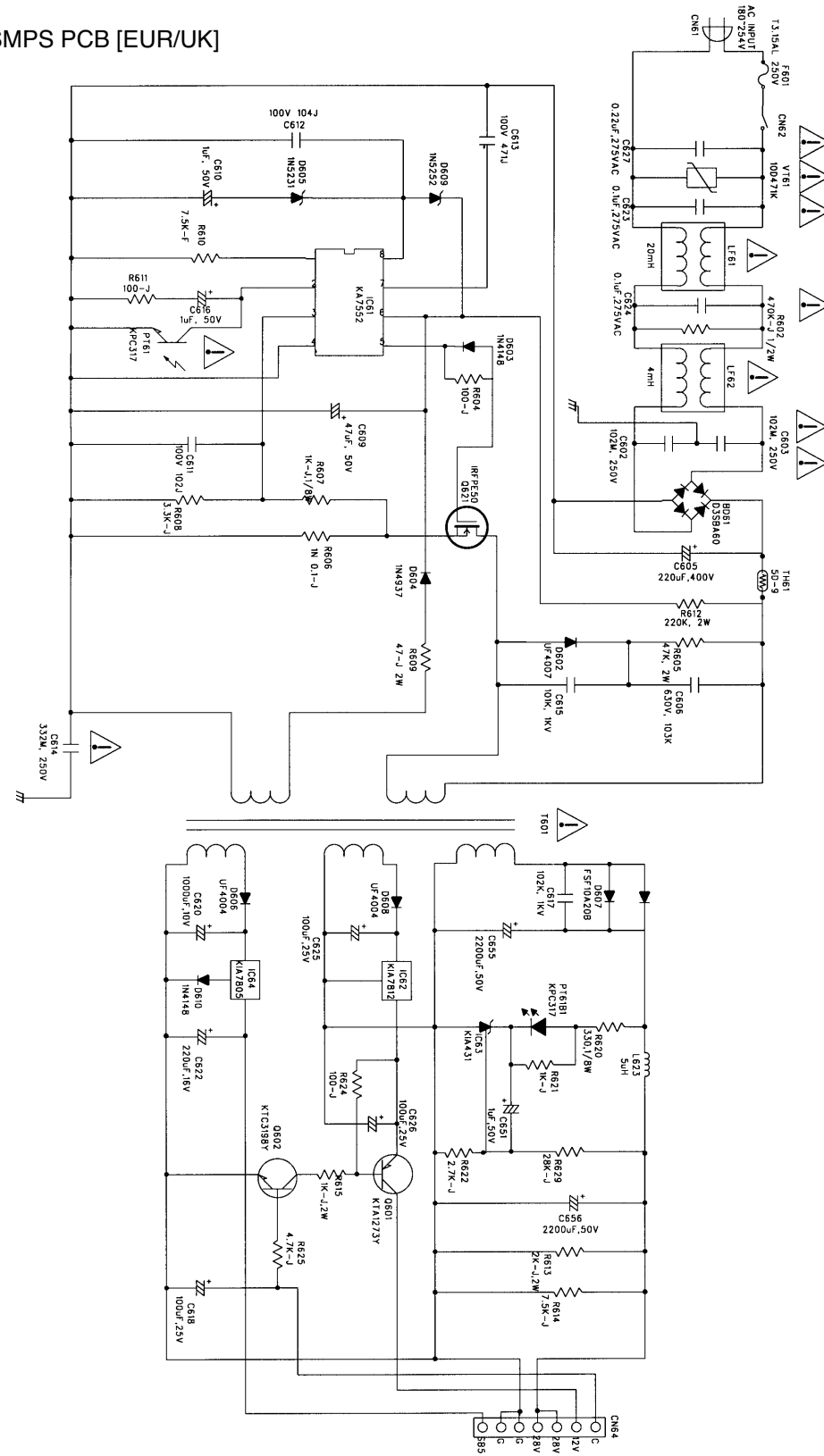




SMPS PCB [USA/CANADA]



SMPS PCB [EUR/UK]



INSTRUCTIONS FOR SERVICE PERSONNEL
BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:

⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the appropriate parts list and ensure exact replacement.